

FIG. 1A

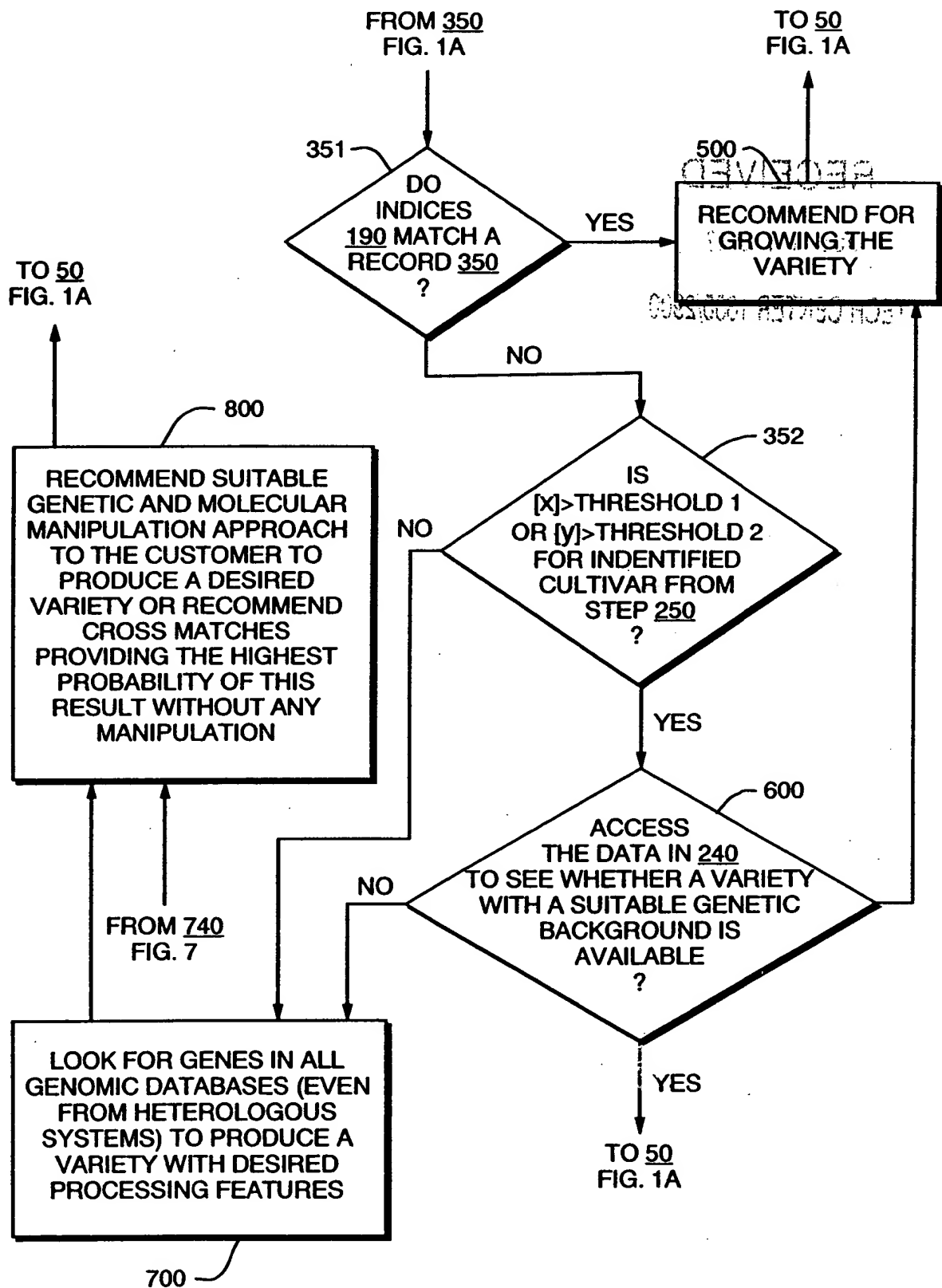


FIG. 1B

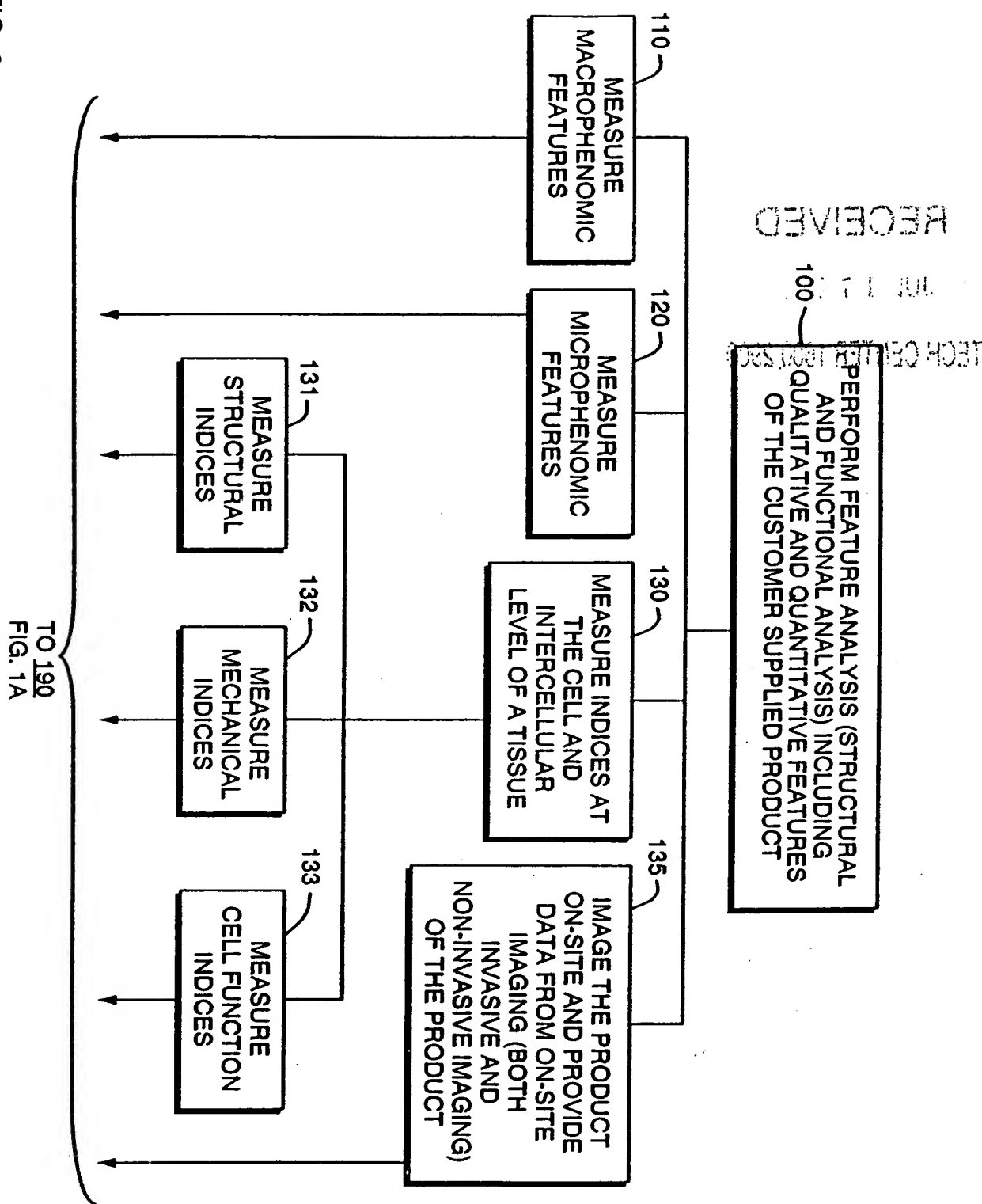


FIG. 2

<p>250a →</p> <p><b>GENETIC INFORMATION CULTIVAR 1 <u>253a</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• FRUIT SIZE GENE(S) f<sub>1</sub>f<sub>2</sub>f<sub>3</sub>f<sub>4</sub></li> <li>• β-CAROTENE GENE(S) B<sub>1</sub></li> <li>• LYCOPENE CONTENT GENE(S) hp<sub>1</sub></li> <li>• FRUIT SUGAR GENE(S) S<sub>1</sub></li> </ul>	<p>251a →</p> <p><b>GENETIC INFORMATION CULTIVAR 1 <u>254a</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• FRUIT SIZE GENE(S) f<sub>1</sub>f<sub>2</sub>f<sub>3</sub>f<sub>4</sub></li> <li>• β-CAROTENE GENE(S) B<sub>1</sub></li> <li>• LYCOPENE CONTENT GENE(S) hp<sub>1</sub></li> <li>• FRUIT SUGAR GENE(S) S<sub>1</sub></li> </ul>
<p><b>GROWTH CONDITIONS INFORMATION SET 1 <u>240a</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• DAY TEMPERATURE 15-20°C</li> <li>• SOIL FERTILITY 6000 (kg NITROGEN/HA)</li> <li>• SOIL MOISTURE 20%</li> </ul>	<p><b>GROWTH CONDITIONS INFORMATION SET 2 <u>241a</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• DAY TEMPERATURE 23-25°C</li> <li>• SOIL FERTILITY 4000 (kg NITROGEN/HA)</li> <li>• SOIL MOISTURE 30%</li> </ul>
<p><b>PRODUCT FEATURE RANGE SET 1 <u>256a</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• FRUIT SIZE 50-60mm</li> <li>• β-CAROTENE 8-10ppm</li> <li>• LYCOPENE 90-100ppm</li> <li>• TOTAL FRUIT SUGARS 65-70%</li> </ul>	<p><b>PRODUCT FEATURE RANGE SET 2 <u>257a</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• FRUIT SIZE 70-80mm</li> <li>• β-CAROTENE 4-6ppm</li> <li>• LYCOPENE 70-80ppm</li> <li>• TOTAL FRUIT SUGARS 65-70%</li> </ul>

TO FIG. 3B

FIG. 3A

<p>252a</p> <p><b>GENETIC INFORMATION CULTIVAR 1 <u>255a</u></b></p> <ul style="list-style-type: none"> <li>• FRUIT SIZE GENE(S) f<sub>1</sub>f<sub>2</sub>f<sub>3</sub>f<sub>4</sub></li> <li>• β-CAROTENE GENE(S) B<sub>1</sub></li> <li>• LYCOPENE CONTENT GENE(S) hp<sub>1</sub></li> <li>• FRUIT SUGAR GENE(S) s<sub>1</sub></li> </ul>	<p>250b</p> <p><b>GENETIC INFORMATION CULTIVAR 2 <u>253b</u></b></p> <ul style="list-style-type: none"> <li>• FRUIT SIZE GENE(S) f<sub>1</sub>f<sub>2</sub></li> <li>• β-CAROTENE GENE(S) B<sub>1</sub>B<sub>2</sub></li> <li>• LYCOPENE CONTENT GENE(S) hp<sub>1</sub>hp<sub>2</sub></li> <li>• FRUIT SUGAR GENE(S) s<sub>1</sub>s<sub>2</sub></li> </ul>
<p><b>GROWTH CONDITIONS INFORMATION SET 3 <u>242a</u></b></p> <ul style="list-style-type: none"> <li>• DAY TEMPERATURE 27-30°C</li> <li>• SOIL FERTILITY 2000 (kg NITROGEN/HA)</li> <li>• SOIL MOISTURE 50%</li> </ul>	<p><b>GROWTH CONDITIONS INFORMATION SET 1 <u>240b</u></b></p> <ul style="list-style-type: none"> <li>• DAY TEMPERATURE 15-20°C</li> <li>• SOIL FERTILITY 6000 (kg NITROGEN/HA)</li> <li>• SOIL MOISTURE 20%</li> </ul>
<p><b>PRODUCT FEATURE RANGE SET 1 <u>258a</u></b></p> <ul style="list-style-type: none"> <li>• FRUIT SIZE 90-100mm</li> <li>• β-CAROTENE 1-2ppm</li> <li>• LYCOPENE 55-65ppm</li> <li>• TOTAL FRUIT SUGARS 65-70%</li> </ul>	<p><b>PRODUCT FEATURE RANGE SET 1 <u>256b</u></b></p> <ul style="list-style-type: none"> <li>• FRUIT SIZE 55-60mm</li> <li>• β-CAROTENE 9-10ppm</li> <li>• LYCOPENE 95-100ppm</li> <li>• TOTAL FRUIT SUGARS 65-70%</li> </ul>

FROM FIG. 3A

TO FIG. 3C

FIG. 3B

251b		252b	
	<p><b>GENETIC INFORMATION CULTIVAR 2 <u>254b</u></b></p> <ul style="list-style-type: none"> <li>• FRUIT SIZE GENE(S) <math>f_1f_2</math></li> <li>• <math>\beta</math>-CAROTENE GENE(S) <math>B_1B_2</math></li> <li>• LYCOPENE CONTENT GENE(S) <math>hp_1hp_2</math></li> <li>• FRUIT SUGAR GENE(S) <math>s_1s_2</math></li> </ul>	<p><b>GENETIC INFORMATION CULTIVAR 2 <u>255b</u></b></p> <ul style="list-style-type: none"> <li>• FRUIT SIZE GENE(S) <math>f_1f_2</math></li> <li>• <math>\beta</math>-CAROTENE GENE(S) <math>B_1B_2</math></li> <li>• LYCOPENE CONTENT GENE(S) <math>hp_1hp_2</math></li> <li>• FRUIT SUGAR GENE(S) <math>s_1s_2</math></li> </ul>	
	<p><b>GROWTH CONDITIONS INFORMATION SET 2 <u>241b</u></b></p> <ul style="list-style-type: none"> <li>• DAY TEMPERATURE 23-25°C</li> <li>• SOIL FERTILITY 4000 (kg NITROGEN/HA)</li> <li>• SOIL MOISTURE 30%</li> </ul>	<p><b>GROWTH CONDITIONS INFORMATION SET 3 <u>242b</u></b></p> <ul style="list-style-type: none"> <li>• DAY TEMPERATURE 27-30°C</li> <li>• SOIL FERTILITY 2000 (kg NITROGEN/HA)</li> <li>• SOIL MOISTURE 50%</li> </ul>	
	<p><b>PRODUCT FEATURE RANGE SET 2 <u>257b</u></b></p> <ul style="list-style-type: none"> <li>• FRUIT SIZE 75-80mm</li> <li>• <math>\beta</math>-CAROTENE 5-6ppm</li> <li>• LYCOPENE 75-80ppm</li> <li>• TOTAL FRUIT SUGARS 65-70%</li> </ul>	<p><b>PRODUCT FEATURE RANGE SET 1 <u>258b</u></b></p> <ul style="list-style-type: none"> <li>• FRUIT SIZE 20-30mm</li> <li>• <math>\beta</math>-CAROTENE 0.1-0.3ppm</li> <li>• LYCOPENE 20-25ppm</li> <li>• TOTAL FRUIT SUGARS 65-70%</li> </ul>	

FROM FIG. 3B

TO FIG. 3D

FIG. 3C

<p>250X ↗</p> <p><b>GENETIC INFORMATION CULTIVAR X <u>253X</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• FRUIT SIZE GENE(S) f<sub>1</sub></li> <li>• β-CAROTENE GENE(S) B<sub>1</sub>B<sub>2</sub>B<sub>3</sub>B<sub>4</sub></li> <li>• LYCOPENE CONTENT GENE(S) hp<sub>1</sub>hp<sub>2</sub>hp<sub>3</sub>hp<sub>4</sub></li> <li>• FRUIT SUGAR GENE(S) s<sub>1</sub>s<sub>2</sub>s<sub>3</sub>s<sub>4</sub></li> </ul>	<p>251X ↗</p> <p><b>GENETIC INFORMATION CULTIVAR X <u>254X</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• FRUIT SIZE GENE(S) f<sub>1</sub></li> <li>• β-CAROTENE GENE(S) B<sub>1</sub>B<sub>2</sub>B<sub>3</sub>B<sub>4</sub></li> <li>• LYCOPENE CONTENT GENE(S) hp<sub>1</sub>hp<sub>2</sub>hp<sub>3</sub>hp<sub>4</sub></li> <li>• FRUIT SUGAR GENE(S) s<sub>1</sub>s<sub>2</sub>s<sub>3</sub>s<sub>4</sub></li> </ul>
<p><b>GROWTH CONDITIONS INFORMATION SET 1 <u>240X</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• DAY TEMPERATURE 5-20°C</li> <li>• SOIL FERTILITY 6000 (kg NITROGEN/HA)</li> <li>• SOIL MOISTURE 20%</li> </ul>	<p><b>GROWTH CONDITIONS INFORMATION SET 2 <u>241X</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• DAY TEMPERATURE 23-25°C</li> <li>• SOIL FERTILITY 4000 (kg NITROGEN/HA)</li> <li>• SOIL MOISTURE 30%</li> </ul>
<p><b>PRODUCT FEATURE RANGE SET 1 <u>256X</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• FRUIT SIZE 50-60mm</li> <li>• β-CAROTENE 6-8ppm</li> <li>• LYCOPENE 75-85ppm</li> <li>• TOTAL FRUIT SUGARS 50-55%</li> </ul>	<p><b>PRODUCT FEATURE RANGE SET 2 <u>257X</u></b></p> <hr/> <ul style="list-style-type: none"> <li>• FRUIT SIZE 70-80mm</li> <li>• β-CAROTENE 1-2ppm</li> <li>• LYCOPENE 55-65ppm</li> <li>• TOTAL FRUIT SUGARS 55-65%</li> </ul>

FROM FIG. 3C

TO FIG. 3E

FIG. 3D

252X →

<b>GENETIC INFORMATION CULTIVAR X <u>255X</u></b>	
<hr/>	
•	FRUIT SIZE GENE(S) f <sub>1</sub>
•	β-CAROTENE GENE(S) B <sub>1</sub> B <sub>2</sub> B <sub>3</sub> B <sub>4</sub>
•	LYCOPENE CONTENT GENE(S) hp <sub>1</sub> hp <sub>2</sub> hp <sub>3</sub> hp <sub>4</sub>
•	FRUIT SUGAR GENE(S) S <sub>1</sub> S <sub>2</sub> S <sub>3</sub> S <sub>4</sub>
<hr/>	
<b>GROWTH CONDITIONS INFORMATION SET 3 <u>242X</u></b>	
<hr/>	
•	DAY TEMPERATURE 27-30°C
•	SOIL FERTILITY 2000 (kg NITROGEN/HA)
•	SOIL MOISTURE 50%
<hr/>	
<b>PRODUCT FEATURE RANGE SET 3 <u>258X</u></b>	
<hr/>	
•	FRUIT SIZE 90-100mm
•	β-CAROTENE 1-2ppm
•	LYCOPENE 55-65ppm
•	TOTAL FRUIT SUGARS 65-70%

FROM FIG. 3D

FIG. 3E



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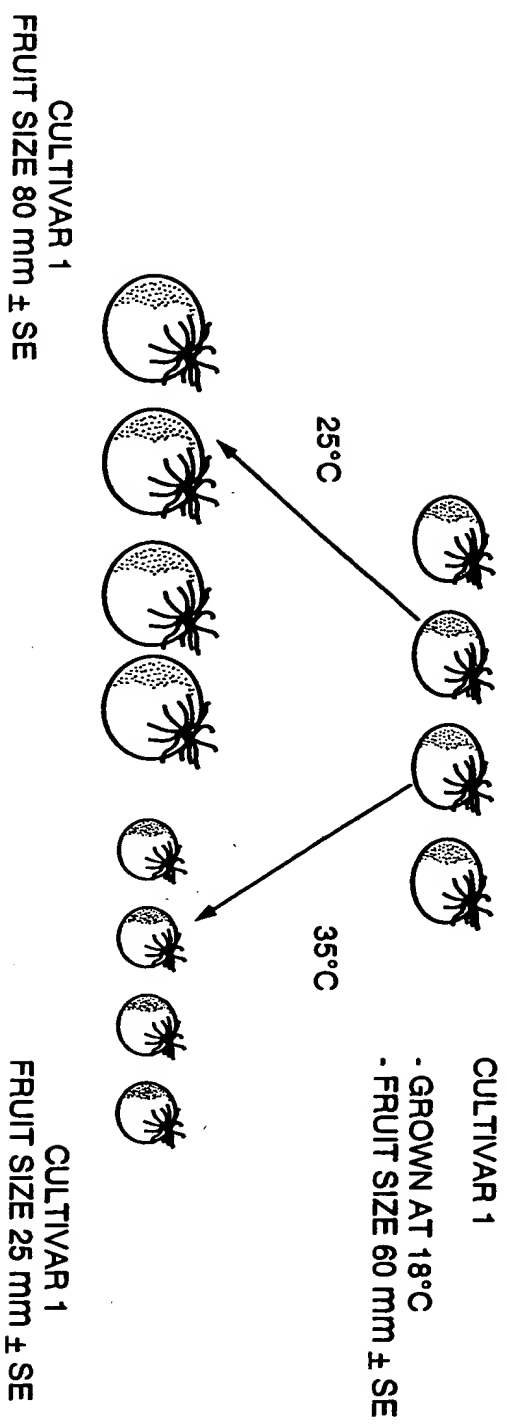


FIG. 4A

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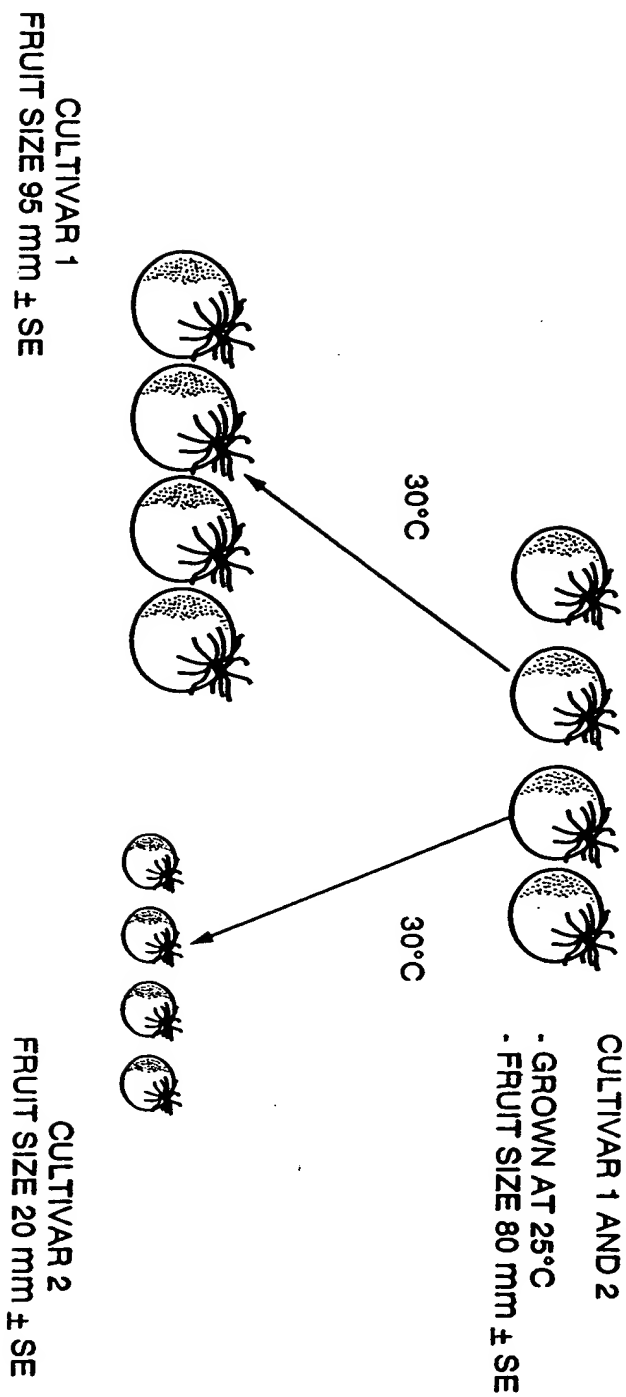


FIG. 4B

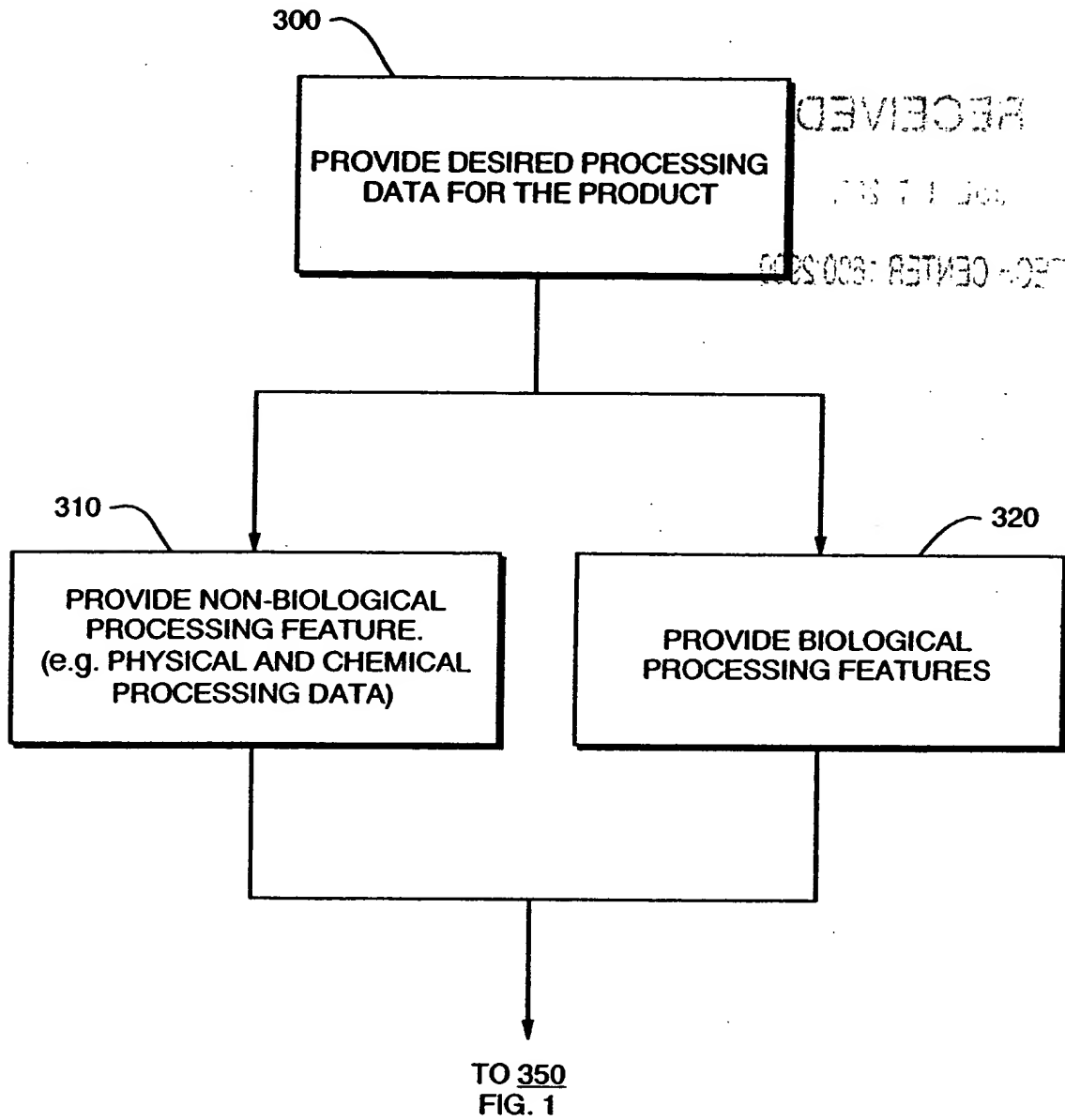


FIG. 5

<p>350a</p> <p>PRODUCT PROCESSING DATA SET 1 352a</p> <hr/> <ul style="list-style-type: none"> <li>MILLING TIME 15 MIN.</li> <li>HEATING TEMP 90°C</li> </ul>	<p>350b</p> <p>PRODUCT PROCESSING DATA SET 2 352b</p> <hr/> <ul style="list-style-type: none"> <li>MILLING TIME 10 MIN.</li> <li>HEATING TEMP 80°C</li> </ul>	<p>350x</p> <p>PRODUCT PROCESSING DATA SET n 352x</p> <hr/> <ul style="list-style-type: none"> <li>MILLING TIME 5 MIN.</li> <li>HEATING TEMP 70°C</li> </ul>
<p>PRODUCT PROCESSING FEATURE RANGE SET 1 354a</p> <hr/> <ul style="list-style-type: none"> <li>LYCOPENE 55-65 ppm</li> <li>SIZE 90-100 mm</li> <li>TOTAL FRUIT SUGARS 65-70%</li> <li>β-CAROTENE CONTENT 1-2 ppm</li> </ul>	<p>PRODUCT PROCESSING FEATURE RANGE SET 2 354b</p> <hr/> <ul style="list-style-type: none"> <li>LYCOPENE 70-80 ppm</li> <li>SIZE 70-80 mm</li> <li>TOTAL FRUIT SUGARS 65-70%</li> <li>β-CAROTENE CONTENT 4-6 ppm</li> </ul>	<p>PRODUCT PROCESSING FEATURE RANGE SET n 354x</p> <hr/> <ul style="list-style-type: none"> <li>LYCOPENE 90-100 ppm</li> <li>SIZE 50-60 mm</li> <li>TOTAL FRUIT SUGARS 65-70%</li> <li>β-CAROTENE CONTENT 8-10 ppm</li> </ul>

FIG. 6

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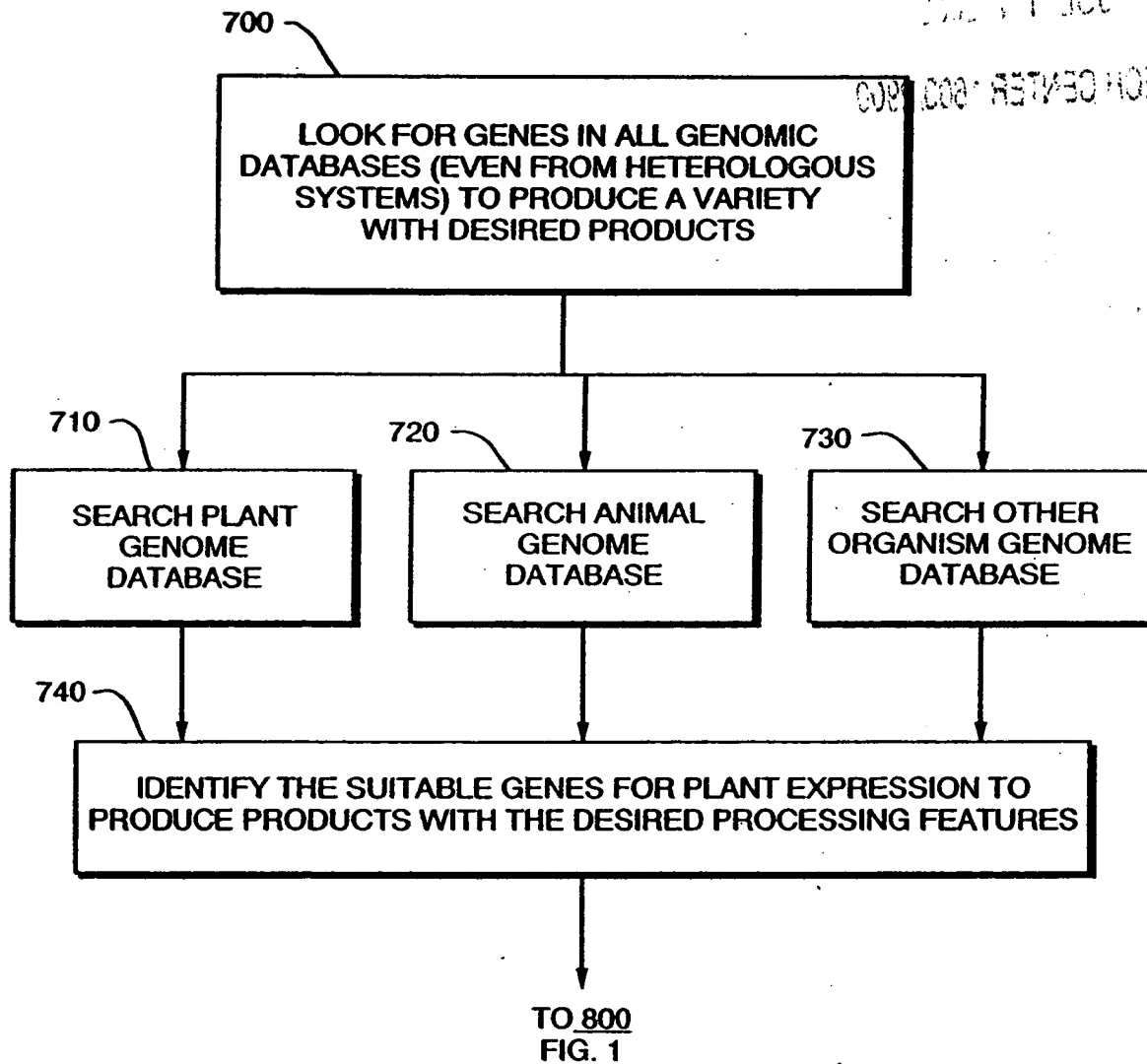


FIG. 7

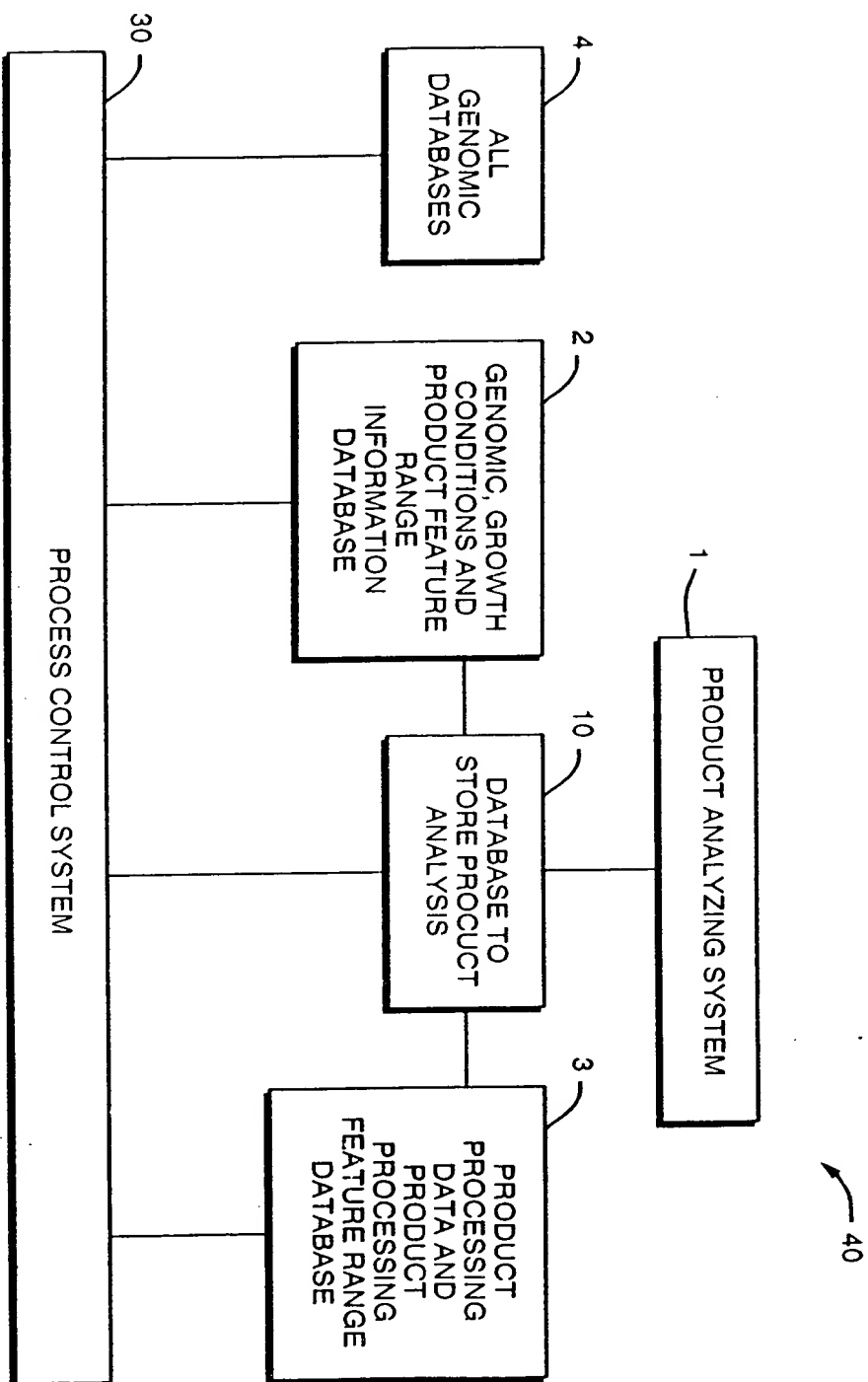


FIG. 8